

SAMKOV, D.M.; KALVAKIELIYE, S.S.

Principal results of seismic microdistricting of the area  
of the city of Tashkent. Trudy Inst. struk. nolj. i  
seism. Akad. Nauk. 10:31-36 '64.  
(MEIA 18:11)

KALMAKHELIDZE, S.S.

Deformations of buildings with foundations in swelling clay.  
Trudy Inst.stroi'dela AN Gruz.SSR 8:163-168 '60. (MIRA 14:10),  
(Marneuli—Foundations)

KALMAKHELIIDZE, S.S.

Brief characteristics of the physicomechanical properties of  
Colchian soils and the conditions of foundation engineering.  
Soob. AN Gruz. SSR 27 no.5:575-582 N '61. (MIRA 15:1)

1. Akademiya nauk Gruzinskoy SSR, Institut stroitel'nogo dela,  
Tbilisi. Predstavлено академиком K.S. Zavriyevym.  
(Colchis—Soil mechanics)

4/271/53/000/003/006/049  
1050/1126

AUTHOR: Kalmakov, A.A.

TITLE: Automatic control of metal composition in alloys and concentrates of nonferrous metal ores by the use of X-ray spectrometry

PERIODICAL: Referativnyy zhurnal, Avtomatika, telemekhanika i vychislitel'naya tekhnika, no. 3, 1963, abstract 3A161 (In collection "Avtomat. regulirovaniye i upr.", Moscow, AN SSSR, 1962, 222 - 230)

TEXT: The author investigates the possibility of utilizing the spectroscopy of secondary radiations for the automatic control of the content of nonferrous metals in products of metallurgy and ore concentration. The investigation carried out was based on the application of  $\beta$ -radiation sources. Various alloys, salts, as well as artificially prepared mixtures of various minerals and flotation concentrates of nonferrous metal ores were used as targets. Empirical formulae are cited for the maximum energy of reflected electrons and  $\beta$ -rays. The block diagram of a spectrometric set-up and the experimental curves of the spectra of secondary radiation taken with the use of various sources are shown.

Card 1/2

Automatic control of metal composition in ....

3/27/83/000/003/005/049  
AC50/A126

The spectral analysis of various targets and the basic reasons for the instability of measurements are cited. There are 7 figures and 6 references.

A. V.

[Abstracter's note: Complete translation]

Card 2/2

SHUMILOVSKIY, Nikolay Nikolayevich; MEL'TSER, Le! Vladimirovich;  
KALMAKOV, Andrey Alekseyevich; TENYAYEV, V.G., red.

[Radioisotope methods for the automatic control of the  
composition of complex media] Radioizotopnye metody avto-  
maticeskogo kontrolya sostava slozhnykh sred. Moskva,  
Energiia, 1964. 63 p. (Biblioteka po avtomatike, no.113)  
(MIRA 17:12)

POL'KIN, S.I.; KHAN, G.A.; KALMAKOV, A.A.; ZLOTINA, S.R.

Introducing automatic control of continuously operating  
laboratory ore dressing plants. Izv.vys.ucheb.zav.; tsvet.  
met. 2 no.6:35-46 '59. (MIRA 13:4)

1. Moskovskiy institut tsvetnykh metallov i zolota. Kafedra  
obogashcheniya poleznykh iskopayemykh.  
(Ore dressing), (Automatic control)

KALMAKOV, A.A.

Using a gold electrode as indicator for certain flotation reagents,  
Izv.vys.ucheb.zav.; tsvet.met. 3 no.2:40-42 '60. (MIRA 15:4)

J. Krasnoyarskiy institut tsvetnykh metallov, kafedra obogashcheniya  
poleznykh iskopayemykh.

(Flotation-Equipment and supplies)  
(Potentiometric analysis)

SHUMILOVSKIY, N.N.; MEL'TTSER, L.V.; KALMAKOV, A.A.

Possibility of using secondary radiation occurring in a controlled atmosphere under the effect of beta particles to analyze the composition of nonferrous ore dressing products. Izv. vys. ucheb. zav.; tsvet. met. 3 no. 6;34-41 '60. (MIRA 14:1)

1. Institut avtomatiki i telemekhaniki AN SSSR. Krasnoyarskiy institut tsvetnykh metallov. Rekomendovana kafedroy obogashcheniya poleznykh iskopayemykh Krasnoyarskogo instituta tsvetnykh metallov. (Ore dressing) (Beta rays--Industrial applications)

S/149/60/000/006/017/018  
A006/A001

AUTHOR: Kalmakov, A. A.

TITLE: Radioactive Isotopes in Concentration and Metallurgy

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya, 1960,  
No. 6, pp. 163-165

TEXT: A Conference on the introduction of radioactive isotopes and nuclear radiation into Soviet national economy took place from April 12 to 16, 1960 in Riga. The Conference was organized by GNTK of the Board of Ministers of the USSR, the Main Administration on the Use of Atomic Energy at the Council of Ministers, USSR; the USSR Academy of Sciences, USSR Gosplan, the State Committee on Automation and Machinebuilding of the USSR Council of Ministers and the Council of Ministers of the Latvian SSR. The Conference was attended by managers, engineers and scientific workers from various institutions and offices and heard over 150 reports on a number of subjects connected with the use of radioactive isotopes in the industry, agriculture and medicine. The metallurgical, mining and concentration departments heard 17 reports. V. V. Savast'yanov and others reported on "Experience of Introducing Radiometrical Position Level Meters into Non-Ferrous

Card 1/3

S/149/60/000/006/017/018  
A006/A001

Radioactive Isotopes in Concentration and Metallurgy

Metallurgical Plants"; some reports were delivered on automatic control and regulation of pulp density using radioactive isotopes; most of the reports heard at the metallurgical department were devoted to the state and outlooks of using radioactive isotopes and nuclear radiation in ferrous metallurgy. A series of reports dealt with radiometrical methods and equipment for quantitative analysis of different chemical elements contained in ore samples, concentrates and metallurgical processing products. Kh. B. Mezhiborskaya (Main Administration on the Use of Atomic Energy at the Council of Ministers, USSR) reported on a photo-neutronic method of determining beryllium using a  $\Phi HM-2$  (FNM-2) apparatus; I. N. Plaksin, V. I. Smirnov and L. P. Starchik (IGD AS USSR) reported on "The Use of Alpha-Radiation Sources for Automated Control of the Composition of Concentration Products of Some Ores"; A. L. Yakubovich, Ye. I. Zaytsev and V. B. Zaleskiy, of VIMS, reported on a "Neutron" type installation and a new physical method, and on equipment for analyzing the chemical composition of substances; I. S. Smirnova of the Institute of Geology of Mineral Deposits, Petrography, Mineralogy and Geochemistry of AS USSR, reported on a roentgen-spectrometrical  $PC\vartheta-1$  (RSYa-1) apparatus for the separate quantitative determination of Ta and Nb, Hf and Zr, Sr and Ba, and similar pairs in the samples, in order to determine the total content of rare earths; reports were also heard on methods and equipment used for the

Card 2/3

KALMAKOV, A.A.

Using the phenomena of backscattering of beta rays to control  
the composition of nonferrous metal droplets. Izv. vys. ucheb.  
zav.; tsvet. met. 4 no. 1:147-153 '61. (MIA 14:2)

1. Krasnoyarskiy institut tsvetnykh metallov, kafedra obogashcheniya  
polznykh iskopayemykh.  
(Nonferrous metals) (beta rays--Industrial applications)

SHUMILOVSKIY, N.N.; MEL'TTSER, L.V.; KALMAKOV, A.A.; TENYAYEV, V.G.

Use of radioactive isotopes in fluorescent analysis for the  
automatic control of ore-dressing products. Izv. vys. ucheb.  
zav.; tsvet. met. 4 no.3:140-147 '61. (MIRA 15:1)

1. Institut avtomatiki i telemekhaniki AN SSSR i Krasnoyarskiy  
institut tsvetnykh metallov. Rekomendovana kafedroy obogashcheniya  
poleznykh iskopayemykh Krasnoyarskogo instituta tsvetnykh metallov.  
(Ore dressing)  
(Radioisotopes—Industrial applications)  
(Fluorimetry)

KALMAKOV, A.A.(eng), FOLKIN, S.I.(Prof, Dr.Eng.), KHAN, G.A. (eng student), SMIRNOV, V. V.

"The use of radioisotopes for the determination of the contents of certain metals  
in the products of ore dressing."

report submitted for 6th Intl Mineral Processing Cong, Cannes, 26 May-2 Jun 63.

Kalinin Inst Non-Ferrous Metals & Gold, Moscow.

SHUMILOVSKIY, N.N.; SALAKHUTDINOV, N.; KALMAKOV, A.A.

Method for controlling the tin content in minerals from the  
resonance absorption of gamma rays (Mossbauer effect). Izv.  
AN Uz. SSR. Ser. tekhn. nauk 8 no.5:29-37 '64. (MIRA 18:2)

1. Institut avtomatiki AN KirgSSR.

L 25572-66 EWT(m)/EWP(t)/EWA(h) DIAP JD

ACC NR: AM6013004

Monograph

*35*  
*34/*

Shumilovskiy, Nikolay Nikolayevich; Betin, Yury Pavlovich;  
 Verkhovskiy, Boris Isaakovich; Kalmakov, Andrej Alekseevich;  
 Mel'ttser, Lel' Vladimirovich; Ovcharenko, YEvgeniy YAKOVLEVICH

Radioisotope and X-ray spectral methods (Radioizotopnyye i rentgenospektral'nyye metody) Moscow, Izd-vo "Energiya", 1965.  
 190 p. illus., biblio. 4500 copies printed. Series note: Fizicheskiye i fizikoхimicheskkiye metody kontrolya sostava i svoystv veshchestva

TOPIC TAGS: x-ray analysis, x-ray spectroscopy, x-ray technique, messbauer effect, radiation detection, neutron source

PURPOSE AND COVERAGE: The book is intended for people interested in radioisotopes and x-ray spectroscopy. It may also be useful for students specializing in spectroscopy and radioisotopes at technical schools of higher education. The first part of the book deals with the principles of operation, calculation methods, and design of radioisotope instruments, based on use of absorption and scattering effects of beta and gamma radiation, excitation of secondary radiation, and the use of neutron sources. The second part is devoted to methods of x-ray spectroscopy. Physical fundamentals of these methods are reviewed, ways for reducing measurement errors given.

Card 1/3

UDC 543.422.8:543.52

2

L 25572-66

ACC NR: AM6013004

and examples of the industrial use of x-ray spectral analyzers  
discussed.

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## Part II. X-Ray Spectral Instruments and Methods of Analysis

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ACC NR: AM6013004

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x-ray spectral analysis -- 143

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SUB CODE: 18/ SUBM DATE: 25Oct65/ ORIG REF: 109/ OTH REF: 081

Card 3/3 FW

KALMAKOV, A.A.; SALAFRUDINOV, N.

Control of the tin content in ores and ore-dressing products  
by applying the Mossbauer effect. Izv. vuz. radiofizika, 1970,  
tsvet. met. 8 no.3(158) 160-162.  
(M.RA 1849)

1. Institut avtomatiki i telemekhaniki, kafedra radioaktivnosti  
rud redkikh i radikaktivnykh metalov.

KALMAKOV, A.A.; KALNIN, Yu.A.; GUSHCHIN, Yu.V.; SALAKHUTDINOV, N.

Variants of the Mossbauer electromechanical rapid spectrometer  
for use in ore dressing and nonferrous metallurgy. Izv. vys.  
ucheb. zav.; tsvet. met. 8 no.5:144-148 '65. (MIRA 18:10)

1. Institut avtomatiki i telemekhaniki. Rekomendovana kafedroy  
obogashcheniya rud redkikh i radioaktivnykh metallov Moskovskogo  
instituta stali i splavov.

KALMAKOV, M.P.

Nemirovskiy, A. M.

First aid in cases of disease through chemical warfare Redaktor A.M. Nemirovskii. Moskva,  
TSentr. in-t sanitarnogo prosveshcheniya, 1943. (8) p.

AULBANEV, P. S.

14T82

USSR/Medicine - Vitamins  
Medicine - Nutrition

Jun 1947

"Preparation of Vitamin Infusions from Conifer  
Needles, Leaves, and Herbs," P. E. Kalmakov, 13 pp

"Voyenno Med Zhur" No 6

Discusses the experimental evaluation of various  
methods of extracting vitamins from conifer needles,  
practical directions on the preparation of infusions  
from tree leaves and herbs, comparative evaluation  
of methods of obtaining infusions, and practical  
directions for the preparation of infusions.

14T82

KALMAN, A

RUMANIA/Chemical Technology - Chemical Products and Their  
Application - Elements. Oxides. Mineral Acids, Bases,  
Salts. H-8

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8591

Author : Kalman A., Ionescu Valeria, Man Marinela, Munteanu  
Mariana, Budici Georgeta

Inst : -

Title : Contributions to the Study of the Carbonation Process in  
the Production of Calcined Soda. Communication I. Prac-  
tical Directions for Increasing the Output of Carbonation  
Columns of the Precipitation Process in the Production of  
Ammonia Soda.

Orig Pub : Rev. chim., 1957, 8, No 4, 241-244

Abstract : For the purpose of increasing the output of carbonation  
columns, in the production of calcined soda, a determina-  
tion has been made of the basic factors of the carbona-  
tion process.

Card 1/1

KALMAN, A.

RUMANIA/Chemical Technology - Chemical Products and Their  
Application, Elements, Oxides, Mineral Acids,  
Bases, Salts:

H-8

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 8595  
Author : Kalman A., Man Marinela  
Inst :  
Title : Rate of Dissolution of Sodium Chloride in Natural Salt  
Deposits.  
Orig Pub : Rev. chim., 1957, 8, No 4, 244-246  
Abstract : To determine the rate of dissolution of NaCl of a salt deposit, in the vertical and horizontal directions (in directional boreholes), a study was made, under laboratory conditions, of the rate of dissolution of cubes of crystalline NaCl, with 20 mm sides and polished surfaces. Diagrams are included, showing the rate of dissolution of NaCl depending on the concentration of the resulting brine and on the temperature, in the horizontal and in

Card 1/2

KALMAN, A.

RUMANIA/Chemical Technology .. Chemical Products and Their  
Application - Carbohydrates and Refinement.

H-26

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, 9484  
Author : Kalman A., Ropceanu F., Creanga Laura, Zorlo N.,  
Inst : Budici Georgetta  
Title : Treatment of Rumanian Diatomites and Possibilities of  
Their Utilization.  
Orig Pub : Rev. chim., 1957, 8, No 3, 158-161  
Abstract : The chemical composition of diatomites is given and  
their various uses are stated, especially as filtering  
materials in the sugar- and chemical industries.

Card 1/1

19

KALMAN, A., and others.

Contribution to the study of the manufacture of calcined soda by the ammonical process. Note 2. Technological parameters determining the quality of soda ash. p. 8.

REVISTA DE CHIMIE. Bucuresti, Rumania. Vol. 10, no. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, no. 9, Sept. 1959.  
Uncl.

KAIMAN, Alajos

Application of the diffractometer at the X-ray investigation of fine  
structure. I. Meres automat 8 no.7:215-224 '60.

1. Magyar Tudomanyos Akademia Kemial Kutato Intezete.

KALMAN, Alajos

Counting tubes for measuring X-ray intensity. Meres automat 11  
no. 2:41-50 '63.

1. Magyar Tudomanyos Akademia Kozponti Kemial Kutato Intezete.

KALMAN, Alajos

Methods for taking X-ray diffraction picture by means of  
counters; electronic units of diffractometer. Meres automat  
11 no.3:80-88 '63.

1. Magyar Tudomanyos Akademia Kozponti Kemial Kutato Intezete.

KALMAN, A.

On the application of X-ray intensity statistics in the case  
of inorganic substances. Acta phys Hung 16 no.2:129-139 '63.

1. Central Research Institute for Chemistry of the Hungarian  
Academy of Sciences, Budapest. Presented by G. Schay.

KALMAN, Alajos (Budapest, II., Pusztaszeri ut 57/69)

Determination of unit cell and space group of crotocine and  
crotocol. Acta chimica Hung 37 no.3:313-317 '63.

1. Central Research Institute for Chemistry, Hungarian  
Academy of Sciences, Budapest.

L 63694-65 EWT(1)/EWP(e)/EWP(i)/T/EWP(t)/EEC(b)-2/EWP(b)/EWA(c) DDF(a)  
JD/PG/WH

ACCESSION NR:AT502223

9U/2002-64 Project #2002-11422

AUTHER: Peter J. Kallman. Author: Kallman, Peter J., 1913-  
Kallman, Peter J.

TITLE: Quantitative X-ray analysis of crystalline multicomponent systems

SOURCE: Academiae scientiarum hungaricae. Acta chimica, v. 41, no. 4, 1964,  
413-427

TOPIC TAGS: x ray diffraction analysis, ideal crystal

ABSTRACT: [English article] A quantitative X-ray diffraction analysis method was developed for two-, three-, four-, and five-component systems.

(Card 1/2)

L 63694-65

ACCESSION NR: AT5022237

3

"The authors express their sincere thanks to Dr. I. Naray-Szabo for his kind interest and valuable advice. Thanks are due to Dr. G. Fiedler (Berlin) for his

ASSOCIATION: Central Research Institute for Chemistry of the Hungarian Academy of Sciences, Budapest

SUBMITTED: 01 Apr 64

ENCL: 00

SUP CODE: SS, CP

NR REF Sov: 000

OTHER: 0014

JPRG

Card 2/2

L 1196-66 EWP(t)/EWP(b)/EWA(h) JD  
ACCESSION NR: AP5025816

HU/0005/65/071/006/0257/0260

20

AUTHOR: Kalman, Alajos

TITLE: General method for the quantitative x-ray diffractometric analysis of multicomponent crystalline systems

SOURCE: Magyar kemiai folyoirat, v. 71, no. 6, 1965, 257-260

TOPIC TAGS: quantitative analysis, x-ray diffraction analysis, x-ray crystallography, crystal chemistry

ABSTRACT: The range of application of the technique described by PETER, E., and KALMAN, A., in Acta Chimica Academiae Scientiarum Hungaricae, Vol 41, 1964, p. 413, was extended. The extended method, applicable generally, was found suitable for industrial analyses for the quantitative determination of the components in multicomponent crystal systems. The principles of the method were described and the techniques involved were discussed. Orig. art. has: 7 formulas, 1 graph.

ASSOCIATION: Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest  
(Central Research Institute for Chemistry at the Hungarian Academy of Sciences)

SUBMITTED: 02Dec64

ENCL: 00

SUB CODE: SS, GC

NR REF Sov: 000

OTHER: 005

JPR5

Card 1/mill

KALMAN, Bela

State of the innovation movement in 1962. Konzerv paprika  
no.1:30-33 Ja-F '63.

1. Elelmezesugyi Miniszterium Konzerv- es Paprikaipari  
Igazgatosag.

KALMAN, Bela, dr.

Language and life. Elet tud 18 no.14:426 7 Ap '63.

L 31379-66 FCC

ACC NR: AP6021131

SOURCE CODE: HU/0033/65/069/04-/0276/0279

93  
B

AUTHOR: Kalman, Cseh Eva

ORG: none

TITLE: Relations between the 500/1000 millibar relative geopotential and the mean daily temperature

SOURCE: Idojaras, v. 69, no. 4-5, 1965, 276-279

TOPIC TAGS: atmospheric geopotential, atmospheric temperature, weather forecasting

ABSTRACT: The relations between the 500/1000 mb. relative geopotential and the mean daily temperature values were investigated. It was found that these relations can generally not be employed for the forecasting of surface atmospheric temperatures in the Carpathian basin. However, an approximating forecast can be made during the period between March and September. The accuracy of the forecasts can be materially improved by taking into account other relevant meteorological phenomena (such as cloud conditions) also. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 04 / SUBM DATE: none / ORIG REF: 002 / SOV REF: 001

Card 1/1 CC

KALMAN, D.; KANTOR, J.

"Remark on the article 'The Effect of the New Unedged Broadleaf Swan-Wood Standard on the Economy of Production'." p. 108

FAIPAR. (Faipari Tudomanyos Egyesulet). Budapest, Hungary.  
Vol. 9, No. 4, Apr. 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959  
Uncla.

KALMAN, D. ; KANTOR, J.

Remark on the article "Effect of the New Unedged Breadleaf Sawn-Wood Standard on the Economy of Production"; also, answer to the remark by F. Rez. p. 135.

SZABVANYUGYI KOZLEMENYEK. (Magyar Szabvanyugyi Hivatal) Budapest, Hungary,  
Vol. 11, no. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,  
August 1959.  
Unclu.

L 10342-66

ACC NR: AP6003353

SOURCE CODE: HU/0018/65/017/002/0200/0205

AUTHOR: Joo, Ferenc--Yoo, F.; Gajo, Maria--Gayo, M.; Kalman, Gorgy--Kalman, D.; Csillik, Bertalan--Chillik, B.

15

B

ORG: Institute of Anatomy, Histology and Embryology, Medical University of Szeged  
(Szegedi Orvostudomanyi Egyetem Bonctani, Szovet- es Fejlodatani Intezete)

TITLE: Lipoprotein structures in the postsynaptic membrane of the myoneural junction

SOURCE: Kiserletes Orvostudomany, v. 17, no. 2, 1965, 200-205

TOPIC TAGS: biochemistry, protein, histology

## ABSTRACT:

The lipoprotein nature of the post-synaptic membrane of the subneural apparatus has been confirmed by histo-chemical and polarization microscopic methods. The double refraction of the postsynaptic membrane of the subneural apparatus has been demonstrated in cryostatic slides by means of anisotropic precipitation staining with Rivanol. It was established that Rivanol, which associates parallel with the lipid elements, brings about a negative double refraction on the membrane, in contrast to the positive double refraction brought about by the organization of the proteins which can be observed after fixation with lead. Orig. art. has: 6 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 13May64 / ORIG REF: 002 / OTH REF: 015

Card 1/1

KALMAN, E.

Determining the Static Characteristics of a Welding Machine with a  
Dispersion Threshold. Electrotehnica (Electrical Engineering), #112k; Apr 55

KALMAN, E.

SCIENCE

Periodicals: STUDII SE CERCETARI DE FIZICA. Vol. 6, no. 2, Apr./June 1955

KALMAN, E. New aspect of the movement of particles. p. 299

Monthly List of East European Accessions (EEAI) 1C, Vol. 8, No. 2,  
February 1959, Unclass.

MAAR, D.; KALMAN, E.

Preliminary report on a survey of familial incidence of luxatio  
coxae congenita in Horne and Dolne Saliby. Acta chir. orthop.  
traum. czech. 27 no.1:18-20 F '60  
(HIP fract & disloc.)

MAKAI,F.; KALMAN,E.

Experiences with institutional care in Sudeck's syndrome.  
Bratisl. lek. listy 44 no.3:160-166 '64.

1. Ortopedicka klinika Lek. Fak. Univ. Komenskeho v Bratislavе; veduci: clen koresp. SAV prof. MUDr. J.Cervenansky.

3

CZECHOSLOVAKIA

CERVENANSKY, J., Prof., MD; KALMAN, E; MAAR, D; MATLOVIC, E.

Orthopedic Clinic LFUK (Ortopedicka klinika LFUK), Bratislava (for all)

Bratislava, Lekarsky obzor, No 5, 1963, pp 295-299

"Spondylotomy in Specific Spondylitis."

KALMAN, Erno

Antivenereal campaign in Hungary. Orv. hetil., Budapest, 92  
no.28:886-892 15 July 1951. (CIML 20:11)

1. Doctor.

KALMÁN, Károly

EXCERPTA MEDICA Sec.13 Vol.9/11 Dermatology Nov 55

2552 KALMÁN E., KIRÁLY K. and KOVÁCS L. \*Az antivenerális küzdelem problémái. Problems of the antiveneral campaign NEPEGÉSZSÉGÜGY 1954, 35/12 (309-320) Graphs 4 Tables 2 Illus. 2

(1) The number of cases of syphilis with recent symptoms in Hungary in 1953 was decreased by 62% as compared with preceding years. The number of new cases of congenital syphilis also showed a considerable decrease. The relative number of cases of late syphilis, especially of neurosyphilis, has become greater, inasmuch as it is indicated by a frequency percentage of 12 in the statistics of the prophylactic institutes. The increase in the relative number of neurosyphilis is explained by the improvement of diagnosis. During the year 1953, CSF examinations were carried out in 13% of the clear-cut syphilis patients in the prophylactic institutes. Further, the predominance of the late forms is explained by the large number of mass examinations. In one year, 6.9% of the population of Hungary were examined for the presence of syphilis. (2) The gonorrhoea morbidity has shown a standstill for one year and was reduced by only 66% as compared with 1947. One of the main causes may be the deficient diagnosis of female gonorrhoea. (3) The principal organizational problems with regard to the improvement of the care of skin and venereal patients, the entity prophylactic station-hospital, the specialist medical care of villages, and hygienic instruction are discussed.

Authors (XVII, 13)

KALMAN E

GODAL, A.; KAPELLER, K.; KALMAN, E.; STRAUSS, P.

Experiments in the transplantation of preserved nerve grafts.  
Rozhl. chir. 35 no.11:679-684 Oct 56.

1. Z Ustavu pre normalnu a topograficku anatomiu v Bratislave,  
prednosta doc. dr. M. Kratochvil, a z chirurgickeho oddelenia  
OUNZ Skalica, primar MUDr. P. Strauss,  
(NERVES, transpl.  
results with preserved grafts (Cs))

KALMAN, E.

MÉDICAL LIBRARY Vol. II/II Med. Micro. Nov. 58

3235. EXPERIMENTS TO PROVE AUTOIMMUNIZATION IN SILICOSIS - Kísérletek autoimmunizáció kimutatására szilikózisban - Kalman, E. Országos Munkaadósszolgályi Intézet, Budapest - EGÉSZSÉGTUDOMÁNY 1957, 1 (43-59) Graphs 8 Illus. 12

On the evidence of pathophysiological, histopathological and clinical symptoms of silicosis, it appears safe to assume that some autoimmunization process is playing a part in its pathogenesis. It is supposed that quartz in alveoli changes the structure of the proteins in the tissue of the lung and gives rise to autoantibody formation. Experiments were carried out to demonstrate the presence of autoantigens and autoantibodies. By precipitation, using Oudin's tube and Jennings' plate agar diffusion method, it proved possible to demonstrate antilung antibodies in sera of rabbits immunized with rat-lung antigen. Sera of rabbits immunized with normal and silicotic lungs, respectively, gave the same precipitation reaction. Pulmonary lesions were successfully induced in rats by the introduction of immune sera containing antibodies against the lung. The same result was achieved with silicotic rat serum. With the semisolid precipitation method the presence of autoantibodies in the blood of animals affected with experimental silicosis or in that of silicotic subjects could not be demonstrated.

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(ROENTGEN RAYS, effects

total body irradiation with large doses, role of  
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Ultrasonic experiments in detecting initial fatigue cracks  
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*Acta Chim. Hung.*, 1958, 41(1-2), 173-182

A method has been developed for determining about 10 per cent. of rare-earth-metal oxides in the presence of 90 per cent. of  $\text{Ca}_3\text{PO}_4$ . One gram of material is dissolved in  $\text{HNO}_3$ , and the phosphate is ppt'd. with  $\text{NH}_4\text{MoO}_4$ . The suspension is made up to 600 ml and filtered, and 240 ml of the filtrate are treated with excess of aq.  $\text{NH}_3$  to ppt. the rare-earth hydroxides. The ppt. is collected on a 1G4 glass filter, washed, dissolved in HCl, evaporated, ignited, redissolved in 1 to 2 ml of HCl and 80 ml of water and ppt'd. hot with oxalic acid. After being heated for 30 min. and set aside for 12 hr. the ppt. is collected on a 1G4 glass filter and washed with aq. oxalic acid containing HCl. It is then redissolved in HCl and repp'td. as above, filtered and washed on a filter-paper, and ignited at 1000°C in a platinum crucible. The error is about 1 per cent. Cerium and Th are present as dioxides, Pr and Tb as oxides of varying composition, other metals as  $\text{R}_2\text{O}_3$ . Excess of oxygen above  $\text{R}_2\text{O}_3$  can be deter-

mined by the iodometric method of Bansen; for samples insoluble in HCl, the  $\text{CO}_2$  is generated from  $\text{KHCO}_3$  added to the aq.  $\text{KI}$ . A. B. DENHAM

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[Chirchik, a city of major industrial chemical complexes]  
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